BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER
YELAHANKA DIVISION

MESAUREMENT SHEETS

1st & Final Bill

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	1								
Item Name:	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:				08/03/2019, 11/03/2019					
For CC Flat form									
At Garage Point in Yelahanka 5th Phase									
			1	0.00	4.60		0.40	0.00	
			1	10.60	3.60	4.10	0.40	17.38	
			1	0.00	10.40		0.40	0.00	
			1	15.00	9.40	9.90	0.40	59.40	
			1	9.80	8.20	8.80	0.40	34.50	
			1	0.00	10.60		0.40	0.00	
			1	15.00	9.70	10.15	0.40	60.90	
			1	15.50	9.60	9.65	0.40	59.83	
			1	0.00	9.50		0.40	0.00	
			1	11.00	11.80	10.65	0.40	46.86	
			1	0.00	7.00		0.40	0.00	
			1	15.00	8.20	7.60	0.40	45.60	
			1	1.20	8.20	8.20	0.40	3.94	
			1	2.80	1.80	1.80	0.40	2.02	
			1	2.80	3.20	3.20	0.40	3.58	
			1	3.80	0.40	0.40	0.40	0.61	
			1	7.70	0.40	0.40	0.40	1.23	
Deductions									
	Sump		-1	3.30	3.50	3.50	0.40	-4.62	
N-LIG 20th Block Back Side									
			1	0.00	1.20		0.40	0.00	
			1	9.60	8.00	4.60	0.40	17.66	
			1	0.00	7.40		0.40	0.00	
			1	7.00	5.90	6.65	0.40	18.62	
			1	0.00	7.40		0.40	0.00	
			1	7.50	10.80	9.10	0.40	27.30	
			1	0.00	4.80		0.40	0.00	

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
			1	11.00	7.80	6.30	0.40	27.72	
			1	0.00	4.90		0.40	0.00	
			1	9.15	10.20	7.55	0.40	27.63	
			1	2.30	1.20	1.20	0.40	1.10	
			1	0.00	11.10		0.40	0.00	
			1	8.10	7.30	9.20	0.40	29.81	
			1	0.00	7.30		0.40	0.00	
			1	9.60	7.00	7.15	0.40	27.46	
			1	0.00	7.00		0.40	0.00	
			1	11.20	3.60	3.60	0.40	16.13	
			1	14.50	0.75	2.18	0.40	12.62	
	Deductions								
	Chamber		-1	1.10	1.10	1.10	0.40	-0.48	
			-2	0.80	0.80	0.80	0.40	-0.51	
	Water Sump		-2		13.52		0.40	-10.82	
For CC Road									
				N-LIG 3rd Block Road					
			1	0.00	4.50		0.40	0.00	
			1	15.00	4.30	4.40	0.40	26.40	
			1	15.00	4.00	4.15	0.40	24.90	
			1	15.00	4.20	4.10	0.40	24.60	
			1	5.60	4.20	4.20	0.40	9.41	
	Total Quantity							610.77	Cum
	Quantity Carried to Summary							610.77	Cum

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	2								
Item Name:	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18/03/2019, 19/03/2019					
For CC Flat form								
At Garage Point in Yelahanka 5th Phase								
		1	0.00	4.60		0.15	0.00	
		1	10.60	3.60	4.10	0.15	6.52	
		1	0.00	10.40		0.15	0.00	
		1	15.00	9.40	9.90	0.15	22.28	
		1	9.80	8.20	8.80	0.15	12.94	
		1	0.00	10.60		0.15	0.00	
		1	15.00	9.70	10.15	0.15	22.84	
		1	15.50	9.60	9.65	0.15	22.44	
		1	0.00	9.50		0.15	0.00	
		1	11.00	11.80	10.65	0.15	17.57	
		1	0.00	7.00		0.15	0.00	
		1	15.00	8.20	7.60	0.15	17.10	
		1	1.20	8.20	8.20	0.15	1.48	
		1	2.80	1.80	1.80	0.15	0.76	
		1	2.80	3.20	3.20	0.15	1.34	
		1	3.80	0.40	0.40	0.15	0.23	
		1	7.70	0.40	0.40	0.15	0.46	
Deductions								
	Sump	-1	3.30	3.50	3.50	0.15	-1.73	
N-LIG 20th Block Back Side								
		1	0.00	1.20		0.15	0.00	
		1	9.60	8.00	4.60	0.15	6.62	
		1	0.00	7.40		0.15	0.00	
		1	7.00	5.90	6.65	0.15	6.98	
		1	0.00	7.40		0.15	0.00	

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
			1	7.50	10.80	9.10	0.15	10.24	
			1	0.00	4.80		0.15	0.00	
			1	11.00	7.80	6.30	0.15	10.40	
			1	0.00	4.90		0.15	0.00	
			1	9.15	10.20	7.55	0.15	10.36	
			1	2.30	1.20	1.20	0.15	0.41	
			1	0.00	11.10		0.15	0.00	
			1	8.10	7.30	9.20	0.15	11.18	
			1	0.00	7.30		0.15	0.00	
			1	9.60	7.00	7.15	0.15	10.30	
			1	0.00	7.00		0.15	0.00	
			1	11.20	3.60	3.60	0.15	6.05	
			1	14.50	0.75	2.18	0.15	4.73	
	Deductions								
	Chamber		-1	1.10	1.10	1.10	0.15	-0.18	
			-2	0.80	0.80	0.80	0.15	-0.19	
	Water Sump		-2		13.52		0.15	-4.06	
For CC Road									
				N-LIG 3rd Block Road					
			1	0.00	4.50		0.15	0.00	
			1	15.00	4.30	4.40	0.15	9.90	
			1	15.00	4.00	4.15	0.15	9.34	
			1	15.00	4.20	4.10	0.15	9.23	
			1	5.60	4.20	4.20	0.15	3.53	
	Total Quantity							229.04	Cum
	Quantity Carried to Summary							229.04	Cum

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	3								
Item Name:	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:				14/03/20219, 15/03/2019					
For CC Flat form									
At Garage Point in Yelahanka 5th Phase									
			1	0.00	4.60			0.00	
			1	10.60	3.60	4.10		43.46	
			1	0.00	10.40			0.00	
			1	15.00	9.40	9.90		148.50	
			1	9.80	8.20	8.80		86.24	
			1	0.00	10.60			0.00	
			1	15.00	9.70	10.15		152.25	
			1	15.50	9.60	9.65		149.58	
			1	0.00	9.50			0.00	
			1	11.00	11.80	10.65		117.15	
			1	0.00	7.00			0.00	
			1	15.00	8.20	7.60		114.00	
			1	1.20	8.20	8.20		9.84	
			1	2.80	1.80	1.80		5.04	
			1	2.80	3.20	3.20		8.96	
			1	3.80	0.40	0.40		1.52	
			1	7.70	0.40	0.40		3.08	
Deductions									
	Sump		-1	3.30	3.50	3.50		-11.55	
N-LIG 20th Block Back Side									
			1	0.00	1.20			0.00	
			1	9.60	8.00	4.60		44.16	
			1	0.00	7.40			0.00	
			1	7.00	5.90	6.65		46.55	
			1	0.00	7.40			0.00	
			1	7.50	10.80	9.10		68.25	

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
		1	0.00	4.80			0.00	
		1	11.00	7.80	6.30		69.30	
		1	0.00	4.90			0.00	
		1	9.15	10.20	7.55		69.08	
		1	2.30	1.20	1.20		2.76	
		1	0.00	11.10			0.00	
		1	8.10	7.30	9.20		74.52	
		1	0.00	7.30			0.00	
		1	9.60	7.00	7.15		68.64	
		1	0.00	7.00			0.00	
		1	11.20	3.60	3.60		40.32	
		1	14.50	0.75	2.18		31.54	
	Deductions							
	Chamber	-1	1.10	1.10	1.10		-1.21	
		-2	0.80	0.80	0.80		-1.28	
	Water Sump	-2		13.52			-27.04	
For CC Road								
	N-LIG 3rd Block Road							
		1	0.00	4.50			0.00	
		1	15.00	4.30	4.40		66.00	
		1	15.00	4.00	4.15		62.25	
		1	15.00	4.20	4.10		61.50	
		1	5.60	4.20	4.20		23.52	
	Total Quantity						1526.93	Sqm
	Quantity Carried to Summary						1526.93	Sqm

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	4								
Item Name:	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			10/04/2019, 11/04/2019					
For CC Flat form								
At Garage Point in Yelahanka 5th Phase								
			1	0.00	4.60		0.10	0.00
			1	10.60	3.60	4.10	0.10	4.35
			1	0.00	10.40		0.10	0.00
			1	15.00	9.40	9.90	0.10	14.85
			1	9.80	8.20	8.80	0.10	8.62
			1	0.00	10.60		0.10	0.00
			1	15.00	9.70	10.15	0.10	15.23
			1	15.50	9.60	9.65	0.10	14.96
			1	0.00	9.50		0.10	0.00
			1	11.00	11.80	10.65	0.10	11.72
			1	0.00	7.00		0.10	0.00
			1	15.00	8.20	7.60	0.10	11.40
			1	1.20	8.20	8.20	0.10	0.98
			1	2.80	1.80	1.80	0.10	0.50
			1	2.80	3.20	3.20	0.10	0.90
			1	3.80	0.40	0.40	0.10	0.15
			1	7.70	0.40	0.40	0.10	0.31
	Deductions							
	Sump		-1	3.30	3.50	3.50	0.10	-1.16
N-LIG 20th Block Back Side								
			1	0.00	1.20		0.10	0.00
			1	9.60	8.00	4.60	0.10	4.42
			1	0.00	7.40		0.10	0.00
			1	7.00	5.90	6.65	0.10	4.66
			1	0.00	7.40		0.10	0.00
			1	7.50	10.80	9.10	0.10	6.83
			1	0.00	4.80		0.10	0.00
			1	11.00	7.80	6.30	0.10	6.93

Sl NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
			1	0.00	4.90		0.10	0.00	
			1	9.15	10.20	7.55	0.10	6.91	
			1	2.30	1.20	1.20	0.10	0.28	
			1	0.00	11.10		0.10	0.00	
			1	8.10	7.30	9.20	0.10	7.45	
			1	0.00	7.30		0.10	0.00	
			1	9.60	7.00	7.15	0.10	6.86	
			1	0.00	7.00		0.10	0.00	
			1	11.20	3.60	3.60	0.10	4.03	
			1	14.50	0.75	2.18	0.10	3.15	
	Deductions								
	Chamber		-1	1.10	1.10	1.10	0.10	-0.12	
			-2	0.80	0.80	0.80	0.10	-0.13	
	Water Sump		-2		13.52		0.10	-2.70	
For CC Road									
	N-LIG 3rd Block Road								
			1	0.00	4.50		0.10	0.00	
			1	15.00	4.30	4.40	0.10	6.60	
			1	15.00	4.00	4.15	0.10	6.23	
			1	15.00	4.20	4.10	0.10	6.15	
			1	5.60	4.20	4.20	0.10	2.35	
	Total Quantity							152.69	Cum
	Quantity Carried to Summary							152.69	Cum

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	5								

Item Name: Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.

Sl NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:				08/05/2019, 10/05/2019					
For CC Flat form									
At Garage Point in Yelahanka 5th Phase									
			1	0.00	4.60		0.15	0.00	
			1	10.60	3.60	4.10	0.15	6.52	
			1	0.00	10.40		0.15	0.00	
			1	15.00	9.40	9.90	0.15	22.28	
			1	9.80	8.20	8.80	0.15	12.94	
			1	0.00	10.60		0.15	0.00	
			1	15.00	9.70	10.15	0.15	22.84	
			1	15.50	9.60	9.65	0.15	22.44	
			1	0.00	9.50		0.15	0.00	
			1	11.00	11.80	10.65	0.15	17.57	
			1	0.00	7.00		0.15	0.00	
			1	15.00	8.20	7.60	0.15	17.10	
			1	1.20	8.20	8.20	0.15	1.48	
			1	2.80	1.80	1.80	0.15	0.76	
			1	2.80	3.20	3.20	0.15	1.34	
			1	3.80	0.40	0.40	0.15	0.23	
			1	7.70	0.40	0.40	0.15	0.46	
Deductions									
	Sump		-1	3.30	3.50	3.50	0.15	-1.73	

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
N-LIG 20th Block Back Side									
			1	0.00	1.20		0.15	0.00	
			1	9.60	8.00	4.60	0.15	6.62	
			1	0.00	7.40		0.15	0.00	
			1	7.00	5.90	6.65	0.15	6.98	
			1	0.00	7.40		0.15	0.00	
			1	7.50	10.80	9.10	0.15	10.24	
			1	0.00	4.80		0.15	0.00	
			1	11.00	7.80	6.30	0.15	10.40	
			1	0.00	4.90		0.15	0.00	
			1	9.15	10.20	7.55	0.15	10.36	
			1	2.30	1.20	1.20	0.15	0.41	
			1	0.00	11.10		0.15	0.00	
			1	8.10	7.30	9.20	0.15	11.18	
			1	0.00	7.30		0.15	0.00	
			1	9.60	7.00	7.15	0.15	10.30	
			1	0.00	7.00		0.15	0.00	
			1	11.20	3.60	3.60	0.15	6.05	
			1	14.50	0.75	2.18	0.15	4.73	
Deductions									
	Chamber		-1	1.10	1.10	1.10	0.15	-0.18	
			-2	0.80	0.80	0.80	0.15	-0.19	
Water Sump			-2		13.52		0.15	-4.06	
For CC Road									
N-LIG 3rd Block Road									
			1	0.00	4.50		0.15	0.00	
			1	15.00	4.30	4.40	0.15	9.90	
			1	15.00	4.00	4.15	0.15	9.34	
			1	15.00	4.20	4.10	0.15	9.23	
			1	5.60	4.20	4.20	0.15	3.53	
Total Quantity								**229.04**	**Cum**
Quantity Carried to Summary								**229.04**	**Cum**

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No.	6								
Item Name:	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4								

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			20-05-2019					
For Compound Wall								
At Garage Point in Yelahanka 5th Phase								
			1	2.10			1.80	3.78	
			1	2.80			1.80	5.04	
			1	2.15			1.80	3.87	
	Total Quantity							12.69	Sqm
	Quanity Limit to							12.00	Sqm
	Quantity Carried to Summary							12.00	Sqm

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No. 7

Item Name: Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			28-05-2019					
Covering Slab								
At Garage Point in Yelahanka 5th Phase								
		1	30.00			1.50	45.00	
		1	30.00			1.50	45.00	
Sainik Vihar 3rd Cross Road								
		1	30.00			0.90	27.00	
		1	30.00			0.90	27.00	
		1	30.00			0.90	27.00	
		1	30.00			0.90	27.00	
		1	15.00			0.90	13.50	
NHIG infront of Shankar Narayana House, Yelahanka 5th Phase								
		1	30.00			0.90	27.00	
		1	30.00			0.90	27.00	
		1	5.00			0.90	4.50	
	Total Quantity						270.00	Sqm
	Quantity Carried to Summary						270.00	Sqm

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Construction of Compound Wall and other works to DWCC in Ward No:02 of Yelahanka Sub Division

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N. Rajanna

Item No. 8

Item Name: Fabricating, providing and erecting in poiston of M.S. Ornamental security Grill Gate without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for square bars of full height and at 8cms C /C for bottom rods providing ornamental C I Designers at the bottom and C I arrows in the midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drilling holes. the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings.

SL NO	CHAINAGE	NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			28-05-2019					
Ornamental Gate								
At Garage Point in Yelahanka 5th Phase								
			1	3.00			2.00	6.00	
			1	2.90			2.00	5.80	
								11.80	
								590.00	
			50Kgs/Sqm					
	Total Quantity						590.00	Kgs
	Quantity Carried to Summary						590.00	Kgs

Contractor Representative

Asst Engineer
Ward No.02, Chowdeshwari
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP